

Date: Sun, 19 Jun 94 04:30:25 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #167
To: Ham-Homebrew

Ham-Homebrew Digest Sun, 19 Jun 94 Volume 94 : Issue 167

Today's Topics:

49MHz walkie talkies legal to use for other bands? (3 msgs)
 ATV transmitter plans?
 Ceramic Filter IN/OUT Impedance (2 msgs)
 Kits
 midnight engineering
 Txer circuits needed (2 msgs)
 UHF diode?
 up-conversion
 Wefax on R-7000 (2 msgs)

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 19 Jun 1994 00:44:25 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!usenet.ins.cwru.edu!neoucom.edu!news.ysu.edu!
yfn.ysu.edu!aq760@network.ucsd.edu
Subject: 49MHz walkie talkies legal to use for other bands?
To: ham-homebrew@ucsd.edu

Please forgive me if this is a dumb question, but I just got my ticket and I
don't want to lose it. Can a 49MHz walkie talkie(runs from a 9v battery)
be converted to run on other bands, such as 440, legally? I thouhtabout
changing the crystal and antenna to the frequency I want. Please do not
flame me. Thank you for your time.

73 de KB8SUJ (Technician Plus)

Date: 19 Jun 1994 01:08:42 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!news-feed-1.peachnet.edu!hobbes.cc.uga.edu!
aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
Subject: 49MHz walkie talkies legal to use for other bands?
To: ham-homebrew@ucsd.edu

In article <2u04d9\$peo@news.ysu.edu> aq760@yfn.ysu.edu (Ben Slagle) writes:

>
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Certainly! As a licensed ham, you are authorized to build your own
transmitting equipment out of anything whatsoever (including other
kinds of transmitters).

There are some further requirements for commercially marketed equipment,
but not homebuilt equipment.

--
< Michael A. Covington, Assc Rsch Scientist, Artificial Intelligence Center >
< The University of Georgia, Athens, GA 30602-7415 USA mcovingt@ai.uga.edu >
< Unless specifically indicated, I am not speaking for the University. > <>
For information about any U.Ga. graduate program, email gradadm@uga.cc.uga.edu.

Date: 19 Jun 94 07:28:50 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!noc.near.net!news.delphi.com!
BIX.com!jdow@network.ucsd.edu
Subject: 49MHz walkie talkies legal to use for other bands?
To: ham-homebrew@ucsd.edu

mcovingt@aisun3.ai.uga.edu (Michael Covington) writes:

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>< Michael A. Covington, Assc Rsch Scientist, Artificial Intelligence Center >
>< The University of Georgia, Athens, GA 30602-7415 USA mcovingt@ai.uga.edu >
>< Unless specifically indicated, I am not speaking for the University. > <><
>For information about any U.Ga. graduate program, email gradadm@uga.cc.uga.edu.

That is true - as far as he goes. Converting a 49MHz HT to 440MHz would be one
HECK of a job, though. It is MUCH more than changing a crystal and antenna. It
would amount to removing the guts of the radio and rebuilding everything but the
case and knobs.

{0.0} jdown@bix.com

Date: Sun, 19 Jun 1994 00:19:20 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
kors@network.ucsd.edu
Subject: ATV transmitter plans?
To: ham-homebrew@ucsd.edu

Stephen Dunifer (frbspd@crl.com) wrote:

: Reddy Praveen (reddy@ee.ualberta.ca) wrote:

: : does any one know where i can by an inexpensive atv transmitter or where
: : i can get the plans for one
: : I would like something small and self contained that has a NTSC input
: : and an antenna output
: : thanks

: Check out the latest issue of Electronics Now (July 1994), full diagrams
: and all.

The Rabbit cost \$29.95 for a transmitter and receiver at 900 mc . What more could
a Ham want?

The Electronics Now kit is very touchy and a challange to build. Mine works,
but I'd never do it again.

dick kors
kors@netcom.com
km6ep

Date: Sat, 18 Jun 94 15:59:58 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!
news.kei.com!travelers.mail.cornell.edu!newstand.syr.edu!galileo.cc.rochester.edu!
news@network.ucsd.edu
Subject: Ceramic Filter IN/OUT Impedance
To: ham-homebrew@ucsd.edu

In <SPIKE.265.2DFF057A@EESTAFF.watstar.uwaterloo.ca>
SPIKE@EESTAFF.watstar.uwaterloo.ca writes:

> We have an SFU-455B ceramic filter from Radio Shack.
> It has been installed in a tube circuit in the IF chain.

If this is a Murata/Erie IF filter, they usually have Zin/out in the 1.5K to
2.0K range. I'll have to look it up...

-Bill VanRemmen, KA2WFJ
billy@urhep.pas.rochester.edu
URHEP::billy

My opinions. No one else's. Definitely not the U of R's.

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"Experience should teach us to be most on our guard to protect liberty
when the government's purposes are beneficent . . . the greatest
dangers to liberty lurk in insidious encroachment by men of zeal, well
meaning but without understanding."

Justice Louis Brandeis
Olmstead vs. United States, United States Supreme Court, 1928
=====

Date: Sat, 18 Jun 94 20:42:12 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!
news.kei.com!travelers.mail.cornell.edu!newstand.syr.edu!galileo.cc.rochester.edu!
news@network.ucsd.edu
Subject: Ceramic Filter IN/OUT Impedance
To: ham-homebrew@ucsd.edu

In <SPIKE.265.2DFF057A@EESTAFF.watstar.uwaterloo.ca>
SPIKE@EESTAFF.watstar.uwaterloo.ca writes:

> We have an SFU-455B ceramic filter from Radio Shack.
> It has been installed in a tube circuit in the IF chain.
>

Date: Fri, 17 Jun 1994 17:13:20 GMT
From: ihnp4.ucsd.edu!swrinde!pipex!bnr.co.uk!corpgate!news.utdallas.edu!
feenix.metronet.com!pubcon!matt.mccullar@network.ucsd.edu
Subject: Kits
To: ham-homebrew@ucsd.edu

Welcome to the hobby, Rod! Pick up any edition of The ARRL Handbook within the past 15 years and you'll find all sorts of good code practice oscillator circuits that are small, inexpensive, fun to build, and easy to work with. Most of them use a 555 integrated circuit that you can get at Radio Shack (if you can survive their inflated prices for everything).

Radio Shack is still a great place to start. It worked for me. The BEST thing to do is get a copy of their book, "Getting Started in Electronics" by Forrest Mims III. It's a wonderful starter manual for folks who want to find out what electronics is all about. It does not cover anything in ham radio, but tells you what all the parts do and provides over 100 circuits that you can easily build. This is the book that got me started. It's a large green paperback, all written by hand, and costs just a couple of bucks. Indulge yourself and you'll never regret it.

73 de Matt, KJ5BA

Date: 16 Jun 94 16:49:56 GMT
From: ihnp4.ucsd.edu!agate!spool.mu.edu!news.clark.edu!netnews.nwnet.net!
bach.seattleu.edu!quick!ole!rwing!eskimo!mzenier@network.ucsd.edu
Subject: midnight engineering
To: ham-homebrew@ucsd.edu

In <104730004@hpwrce.mayfield.hp.com>, Tony Zugec wrote:
: I just went to Tower Record Bookstore here in Mountain View, Ca.
: at lunch looking for Midnight Engineering Magazine. None to be
: found. I hope they haven't packed their bags.

I saw it on magazine racks at both Computer City (the Tandy owned computer store chain) and at Borders Books (the Kmart owned large bookstore chain) in the last month or so.

Mark Zenier mzenier@eskimo.com mzenier@netcom.com

Date: 16 Jun 94 02:33:32 +1000
From: ihnp4.ucsd.edu!muninari.oz.au!jabaru.pronet.com!csource!unique!not-for-mail@network.ucsd.edu
Subject: Txer circuits needed
To: ham-homebrew@ucsd.edu

I am considering going for my amateur licence soon, and was wondering if anyone on the echo knows of any circuits that have been published in the electronics/amateur magazines for a reasonably easy to build low power AM/SSB transmitter (something like 15 or 20 watts, to build up while studying for the course). Solid state would be preferable to valves.
Any help would be appreciated.

Thanks, Bill.

Date: Sun, 19 Jun 1994 08:52:46 GMT
From: ihnp4.ucsd.edu!agate!spool.mu.edu!nigel.msen.com!caen!malgudi.oar.net!witch!ted!mjsilva@network.ucsd.edu
Subject: Txer circuits needed
To: ham-homebrew@ucsd.edu

In article <e81_9406181518@unique.pronet.com>, Bill Mathieson (Bill.Mathieson@f125.n635.z3.fidonet.org) writes:

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>anyone on the echo knows of any circuits that have been published in the
>electronics/amateur magazines for a reasonably easy to build low power
>AM/SSB transmitter (something like 15 or 20 watts, to build up while studying
>for the course). Solid state would be preferable to valves.
>Any help would be appreciated.

>

Congratulations on your ambition! I'll give what has become my standard response: Look at the ARRL Handbook, as well as the W1FB Notebooks, and (especially) "QRP Classics", all published by ARRL. I'm sure others can suggest more sources, but you really should have all the above.

73,
Mike, KK6GM

Date: Sat, 18 Jun 94 16:07:39 GMT

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!
news.kei.com!ub!galileo.cc.rochester.edu!news@network.ucsd.edu
Subject: UHF diode?
To: ham-homebrew@ucsd.edu

I am putting together a VHF/UHF directional coupler. I plan to use it at first on 2m, but I would like it to work up to 1.2GHz. I have used 1N34A's at 2 meters before with some success, but I doubt that they will work at much higher freqs. Can someone suggest a good diode to use in the low-gigahertz range? Preferably something with a low Vf like a Schottky, though Vf up to 0.4 V or so is probably ok.

TNX and 73

-Bill VanRemmen, KA2WFJ
billy@urhep.pas.rochester.edu
URHEP::billy

My opinions. No one else's. Definitely not the U of R's.

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"Experience should teach us to be most on our guard to protect liberty when the government's purposes are beneficent . . . the greatest dangers to liberty lurk in insidious encroachment by men of zeal, well meaning but without understanding."

Justice Louis Brandeis

Olmstead vs. United States, United States Supreme Court, 1928
=====

Date: 18 Jun 94 11:34:53 CST
From: ihnp4.ucsd.edu!swrinde!news.uh.edu!ccsvax.sfasu.edu!ccsvax.sfasu.edu!
f_speerjr@network.ucsd.edu
Subject: up-conversion
To: ham-homebrew@ucsd.edu

Yet another dumb question from a boatanchor era ham trying to enter the late 20th:

I notice modern HF receivers (or at least the one I just ordered from Index Labs) use UPconversion. The IF in the Index Labs unit, for example, is 50mhz. This clerly creates a favorable image ratio, but in former times would havee been rejected because a) it's hard to generate IF selectivity at that frequency, and the alterative of filtering at AF has its own problems, and b) it's hard to do needed, stable amplification at that frequency.

Obviously these problems have been overcome, because the upconversion systems are getting good reviews, but I wonder if someone can tell my just what

technological developments have made this new architecture possible.
For example, the Index Lab RX uses SCAF filters. Are they immune to the
intermod and other problems usually associated with audio filters? If so, how
so?

(Interestingly, none of the fairly recent ARRL publications I have, including
LAST years -- not this year's -- copy of the handbook, is of any use at all. Is
the technology changing that fast? Or is the Handbook just in need of a major
revision? Or did I just overlook what's actually right there in front of me?)

Thanks much!

Jim

K5YUT

Date: 18 Jun 1994 14:25:40 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!spool.mu.edu!torn!
newshost.uwo.ca!gateway!mail@network.ucsd.edu
Subject: Wefax on R-7000
To: ham-homebrew@ucsd.edu

Has anyone used the IF output of the R-7000 to drive a wide band IF
system for the reception of Wefax and/or APT ? If so, can you provide
info on the outboard IF system you used ?

lbol@julian.uwo.ca

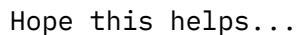
Date: Sun, 19 Jun 1994 00:14:50 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
kors@network.ucsd.edu
Subject: Wefax on R-7000
To: ham-homebrew@ucsd.edu

l.h. bol (lbol@julian.uwo.ca) wrote:

: Has anyone used the IF output of the R-7000 to drive a wide band IF
: system for the reception of Wefax and/or APT ? If so, can you provide
: info on the outboard IF system you used ?

I've used the r7000 for both ppurposes with delightful results using wide-band IF
and a good rf preamp. I get noise free Wefax and 8 to 10 minutes of noise free
APT into the decoder board. I'm pleased with the results and cost. For APT I used
a Ramsey 2 meter pre-amp costing about \$15.00.

The schematic for the test circuit ...



My opinions. No one else's. Definitely not the U of R's.

Justice Louis Brandeis

Olmstead vs. United States, United States Supreme Court, 1928

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End of Ham-Homebrew Digest V94 #167
